10/529826

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 19 February 2004 (19.02.2004)

PCT

(10) International Publication Number WO 2004/015124 A1

(51) International Patent Classification⁷: C07K 14/535

C12P 21/02,

(21) International Application Number:

PCT/EP2003/006134

(22) International Filing Date: 11 June 2003 (11.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: P-200200187

31 July 2002 (31.07.2002)

- (71) Applicant (for all designated States except US): LEK PHARMACEUTICALS D.D. [SI/SI]; Verovskova 57, 1526 Ljubljana (SI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MENART, Viktor [SI/SI]; Logatec, Dol 3, 1370 Logatec (SI). GABERC-POREKAR, Vladka [SI/SI]; Vrhovci c. X/43, 1000 Ljubljana (SI). JEVSEVAR, Simona [SI/SI]; Vodole 26, 2000 Maribor (SI).
- (74) Agents: HOFER, Dorothea et al.; Prüfer & Partner GbR, Harthauser Strasse 25d, 81545 München (DE).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

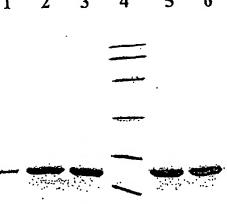
Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PRODUCTION OF A HETEROLOGOUS PROTEIN

1 2 3 4 5 6



(57) Abstract: The invention relates to a new process for the production of a biologically active heterologous protein. The process involves the performance of biosynthesis by adjusting conditions in such a way that the process enables the accumulation of correctly folded precursor of the heterologous protein already in inclusion bodies. The invention further comprises washing and solubilising of the inclusion bodies, especially under non-denaturating conditions.

